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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,621	02/13/2002	Anson Chi Kit Cheung	REUT1	7357
6980	7590	06/29/2006	EXAMINER	
TROUTMAN SANDERS LLP 600 PEACHTREE STREET, NE ATLANTA, GA 30308			PENG, FRED H	
			ART UNIT	PAPER NUMBER
			2633	

DATE MAILED: 06/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/074,621	CHEUNG, ANSON CHI KIT	
	Examiner	Art Unit	
	fred peng	2633	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02/13/2002.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 2/13/02 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Nadan (US 5,321,750).

Regarding claim1, Nadan anticipates an apparatus for receiving update message for a plurality of records, each record has an Identifier (ID) and each update message comprises an update and ID, comprising an **input** for receiving update messages, a processor for processing update message by ID and output to the first output if ID is one of the first plurality of IDs, otherwise sent to the 2<sup>nd</sup> output w/o processing, and stored in the 1<sup>st</sup> memory **By** "a plurality of uniquely identified decoder-receivers for receiving the update data for display on a video screen. Authorized decoders are provided with enable reception keys so that subsequently transmitted data having an information identification code matching a reception key at a decoder-receiver may be received for subsequent display on the video screen. See Abstract lines 4-11. Each decoder selects out and processes only those messages on the DV bus that are directed to its video screens or to the decoder. Thus, each decoder may have more than one video screen and a unique display identification code for each video screen. Each video screen has a unique identification code that supports permissioning of restricted display information to be viewed. See Col. 5 lines 64-68 and Col. 6 lines 1-3. Each decoder receives at least all transmitted messages for its video screens and stores the information to be displayed, i.e., the screen image, in an internal picture store memory. Each decoder selects out and processes only those messages on the DV bus that are directed to its video screens. See Col. 5 lines 61-66. (1<sup>st</sup> output for selected screen, 2<sup>nd</sup> output for non-selected screen)"

Regarding claim2, Nadan further anticipates the processor comprising a 3<sup>rd</sup> output and processing the update message when ID is one of a 2<sup>nd</sup> plurality of IDs and output to 3<sup>rd</sup> output; further

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comprising a 2<sup>nd</sup> memory to store from 3<sup>rd</sup> output By "Each decoder receives at least all transmitted messages for its video screens and stores the information to be displayed, i.e., the screen image, in an internal picture store memory. Each decoder selects out and processes only those messages on the DV bus that are directed to its video screens or to the decoder. Thus, each decoder may have more than one video screen and a unique display identification code for each video screen. Each video screen has a unique identification code that supports permissioning of restricted display information to be viewed. See Col. 5 lines 61- 68 and Col. 6 lines 1-3. (2<sup>nd</sup> selected screen)"

Regarding claim3, Nadan further anticipates an apparatus comprising a user application module receiving update from 1<sup>st</sup> output and processing it based on the user requirements By "a user-defined size and display location, or both, such that the transmitted data is mapped into any user-defined location as it is stored for display on the video screen. See Col. 5 lines 37-40."

Regarding claim4, Nadan further anticipates application module comprises a display module for preparing for display By "It is a another object of the present invention to facilitate the ability to provide each user's video screen(s) with a customized output display. See Col. 4 lines 45-47".

Regarding claim5, Nadan further anticipates the apparatus comprising a user input device coupled to the application module for providing inputs By "Commercially available keyboards and mice may be provided to send information request signals via the decoder to a control bus connecting the plurality of decoders to the encoder or host computer and to define tile size and display locations. See Col 6 lines 8-12."

Regarding claim6, Nadan further anticipates from claim3 that the apparatus further comprising a request module coupled to receive a user request that provides at least one ID, and requesting 2<sup>nd</sup> memory if ID is stored, then retrieving the record if stored to the application module By "It is another object to allow rapid response to user requests to view new or additional source of information. See Col 3 lines 55-57. And means for retrieving said display coordinates of the update data corresponding to each of said stored information identification codes. See Col 4 lines 67-68 and Col 5 lines 1-2."

Regarding claim7, Nadan further anticipates request module coupled to the processor for processing the request ID if not stored in 2<sup>nd</sup> memory. The processor then checks 1<sup>st</sup> memory to retrieve

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and process the message to produce an updated record to the application module By "means for retrieving said display coordinates of the update data corresponding to each of said stored information identification codes; means for storing said update data at the related coordinates for subsequent display on the video screen; and means for selectively displaying said stored updated display information on the video screens. See Col 4 lines 67-68 and Col 5 lines 1-6." It is another object to provide for distributing information in a tile format whereby each user can assign a location on that user's video screen for display of the tile. See Col 3 lines 58-61."

Regarding claim8, Nadan further anticipates memory comprising a magnetic data storage device By "Each decoder receives at least all transmitted messages for its video screens and stores the information to be displayed, i.e., the screen image, in an internal picture store memory. See Col 5 lines 61-64". The store memory is broad enough to include magnetic data storage device.

Regarding claim9, Nadan also anticipates memory comprising a semiconductor data storage device with the same reason as for claim8.

Regarding claim10, Nadan also anticipates memory comprising both semiconductor and magnetic data storage device as mentioned above for claims 8 and 9.

Regarding claim11, Nadan further anticipates from claim7 that the apparatus comprises a filter coupled to receive broadcast update message and coupled to the input for providing update message By " Each decoder receives at least all transmitted messages for its video screens. See Col. 5 lines 61-62. Each decoder selects out and processes only those messages on the DV bus that are directed to its video screens or to the decoder. See Col. 5 lines 64-66."

Regarding claim12, Nadan further anticipates from claim1 that an apparatus comprises a receiver for receiving a broadcast signal and coupled to filter By "decoder-receivers for receiving the update data for display on a video screen. Authorized decoders are provided with enable reception keys so that subsequently transmitted data having an information identification code matching a reception key at a decoder-receiver may be received for subsequent display on the video screen. See Abstract lines 5-11."

Regarding Claims 13, Nadan anticipates a method for processing update message for a plurality of records, each record has an ID and each update message comprises an update and ID, comprising steps

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of Receiving at least some of update messages, process and produce the update to the first output if ID is one of the 1<sup>st</sup> plurality of IDs, otherwise storing the update message in a 1<sup>st</sup> memory w/out processing by the same reasons as mentioned earlier for apparatus claim as in claim 1.

Regarding Claims 14, Nadan further anticipates a method comprising the step of processing, producing and storing the update to the 2<sup>nd</sup> memory if ID is one of the 2<sup>nd</sup> plurality of IDs by the same reasons as mentioned earlier for apparatus as in claim 2.

Regarding Claims 15, Nadan further anticipates a method comprising the step of receiving the update from the 1<sup>st</sup> output and processing the update based on user requirements by the same reasons as mentioned earlier for apparatus as in claim 3.

Regarding Claims 16, Nadan further anticipates a method comprising the step of preparing the update for display by the same reasons as mentioned earlier for apparatus as in claim 4.

Regarding Claims 17, Nadan further anticipates a method comprising the step of receiving user requirements prior to processing by the same reasons as mentioned earlier for apparatus as in claim 5.

Regarding Claims 18, Nadan further anticipates a method comprising the step of receiving a user request at least one ID, determining if a record having at least one ID in 2<sup>nd</sup> memory, retrieving the record and processing it based on the user requirements by the same reasons as mentioned earlier for apparatus as in claim 6.

Regarding Claims 19, Nadan further anticipates a method comprising the step of retrieving update message from 1<sup>st</sup> memory having at least one ID if not stored in the 2<sup>nd</sup> memory, processing the message to produce an update record and processing the update based on user requirement by the same reasons as mentioned earlier for apparatus as in claim 7.

Regarding Claims 20, Nadan further anticipates a method comprising the step of receiving broadcast update message for the plurality of records and providing the some of the update message by the same reasons as mentioned earlier for apparatus as in claim 12.

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***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-20 are also rejected under 35 U.S.C. 102(e) as being anticipated by Shimoji et al (US 2002/0088007 A1).

Regarding claim1, Shimoji anticipates an apparatus for receiving update message for a plurality of records, each record has an Identifier (ID) and each update message comprises an update and ID, comprising an input for receiving update messages, a processor for processing update message by ID and output to the first output if ID is one of the first plurality of IDs, otherwise sent to the 2<sup>nd</sup> output w/o processing, and stored in the 1<sup>st</sup> memory **By** "The stated object can also be achieved by a digital broadcast reception apparatus for receiving a repeatedly transmitted digital broadcast of a plurality of sets of image data (update message) and sets of control information (ID) which correspond to the sets of image data, each set of control information including link destination information showing a set of image data which is a link destination for a link attached to a set of image data corresponding to the set of control information, the digital broadcast reception apparatus including: a reception unit (input) for receiving the digital broadcast; an extraction unit (processor) for extracting one set of image data and a corresponding set of control information from the received digital broadcast; a storage unit for storing the extracted set of control information (including 1<sup>st</sup> memory that stores non-selected 2<sup>nd</sup> output); a reproduction unit for reproducing the extracted set of image data (1<sup>st</sup> output); an operation unit for receiving a user selection operation of link destination information included in the set of control information; and an extraction control unit for controlling the extraction unit to extract a set of image data and a corresponding set of control information which are indicated by the link destination information

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selected by the user selection operation. See paragraph 58 lines 1-21. With the stated construction, a user can freely switch from a displayed set of image data to another set of image data in accordance with the link destination information included in the control information. See paragraph 59 lines 1-4.

Regarding claim2, Shimoji further anticipates the processor comprising a 3<sup>rd</sup> output and processing the update message when ID is one of a 2<sup>nd</sup> plurality of IDs and output to 3<sup>rd</sup> output; further comprising a 2<sup>nd</sup> memory to store from 3<sup>rd</sup> output **By** "With the stated construction, the digital broadcast reception apparatus can refer to the image correspondence table and obtain second image data identification information to indirectly specify the desired set of image data which it then extracts. See paragraph 70 lines 1-5."

Regarding claims 3 and 4, Shimoji further anticipates an apparatus comprising a user application module receiving update from 1<sup>st</sup> output and processing it based on the user requirements and a display module for preparing for display **By** "FIG. 1 shows several examples of "contents" which are displayed by the display screen of a receiver apparatus, with these example contents representing weather forecasts. Here, the example contents 151 to 153 show weather forecasts for the whole of Japan (153) and for different regions (151, 152). This term "content" is the unit of information used when interactive operations are made by a user. The arrows 154 to 157 which have been drawn between pairs of these contents 151 to 153 show the switching of display which can be performed in response to user operations. See paragraph 161 lines 1-11. Each set of image data (166 onwards) is composed of a main image of one of the contents (151 onwards) which is to be displayed on the display screen of the reception apparatus. See paragraph 166 lines 1-4.

Regarding claim5, Shimoji further anticipates the apparatus comprising a user input device coupled to the application module for providing inputs **By** "The signal reception unit 127 receives signals, such as remote controller operations made by a user, and informs the reception control unit 126 of the received signals. See paragraph 365 lines 1-3."

Regarding claims 6 and 7, Shimoji further anticipates from claim3 that the apparatus further comprising a request module coupled to receive a user request that provides at least one ID, and requesting 2<sup>nd</sup> memory if ID is stored, then retrieving the record if stored to the application module. If not



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stored in 2<sup>nd</sup> memory then check 1<sup>st</sup> memory and retrieve, process and produce update message to the application module By "an operation unit for receiving a user selection operation of link destination information included in the set of control information; and an extraction control unit for controlling the extraction unit to extract a set of image data and a corresponding set of control information which are indicated by the link destination information selected by the user selection operation. See paragraph 58 lines 15-21. With the stated construction, a user can freely switch from a displayed set of image data to another set of image data in accordance with the link destination information included in the control information when image data is one-directionally transmitted from a digital broadcasting apparatus. An interactive digital broadcast can thereby be achieved. See paragraph 59 lines 1-7.

Regarding claims 8-10, Shimoji further anticipates 1<sup>st</sup> memory comprising a magnetic data storage device, 2<sup>nd</sup> memory comprising a semiconductor data storage device, and 1<sup>st</sup> and 2<sup>nd</sup> memories comprising a magnetic data storage device and a semiconductor data storage device By "The received data storage unit 125 can be composed of RAM (Random Access Memory). See paragraph 362 lines 1-2. Random Access Memory can be either magnetic data storage device or semiconductor data storage device or both."

Regarding claim 11, Shimoji further anticipates from claim 7 that the apparatus comprises a filter coupled to receive broadcast update message and coupled to the input for providing update message By "The TS decoder 123 includes a filter condition storage unit 131 for storing the filter conditions set by the reception control unit 126, and operates in accordance with these filter conditions so as to only separate image data or audio data with a specified identifier from the transport stream outputted by the reception unit 122. See paragraph 346 lines 1-6."

Regarding claim 12, Shimoji further anticipates from claim 1 that an apparatus comprises a receiver for receiving a broadcast signal and coupled to filter By "The reception control unit of a data reception apparatus sets filter conditions in a filter condition storage unit of a TS decoder unit in accordance with user operation indications.. See Abstract lines 5-8."

Regarding Claims 13, Shimoji anticipates a method for processing update message for a plurality of records, each record has an ID and each update message comprises an update and ID, comprising steps

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of Receiving at least some of update messages, process and produce the update to the first output if ID is one of the 1<sup>st</sup> plurality of IDs, otherwise storing the update message in a 1<sup>st</sup> memory w/out processing by the same reasons as mentioned earlier for apparatus claim as in claim 1.

Regarding Claims 14, Shimoji further anticipates a method comprising the step of processing, producing and storing the update to the 2<sup>nd</sup> memory if ID is one of the 2<sup>nd</sup> plurality of IDs by the same reasons as mentioned earlier for apparatus as in claim 2.

Regarding Claims 15, Shimoji further anticipates a method comprising the step of receiving the update from the 1<sup>st</sup> output and processing the update based on user requirements by the same reasons as mentioned earlier for apparatus as in claim 3.

Regarding Claims 16, Shimoji further anticipates a method comprising the step of preparing the update for display by the same reasons as mentioned earlier for apparatus as in claim 4.

Regarding Claims 17, Shimoji further anticipates a method comprising the step of receiving user requirements prior to processing by the same reasons as mentioned earlier for apparatus as in claim 5.

Regarding Claims 18, Shimoji further anticipates a method comprising the step of receiving a user request at least one ID, determining if a record having at least one ID in 2<sup>nd</sup> memory, retrieving the record and processing it based on the user requirements by the same reasons as mentioned earlier for apparatus as in claim 6.

Regarding Claims 19, Shimoji further anticipates a method comprising the step of retrieving update message from 1<sup>st</sup> memory having at least one ID if not stored in the 2<sup>nd</sup> memory, processing the message to produce an update record and processing the update based on user requirement by the same reasons as mentioned earlier for apparatus as in claim 7.


Regarding Claims 20, Shimoji further anticipates a method comprising the step of receiving broadcast update message for the plurality of records and providing the some of the update message by the same reasons as mentioned earlier for apparatus as in claim 12.

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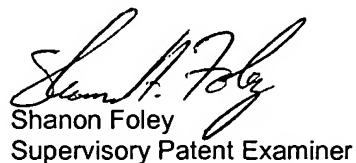
Any inquiry concerning this communication or earlier communications from the examiner should be directed to fred peng whose telephone number is (571)270-1147. The examiner can normally be reached on Monday-Friday 07:30-17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, shanon foley can be reached on (571)272-0898. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



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